

TYSON S. BARRETT, PhD

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EDUCATION

Ph.D. Quantitative Psychology	<i>Feb 2018</i> <i>Utah State University</i> <i>Dissertation: Marginal Mediation Analysis: A New Framework for Interpretable Mediated Effects</i>
B.S. Economics	<i>May 2014</i> <i>Utah State University</i> <i>Cum Laude</i>
B.S. Psychology	<i>May 2014</i> <i>Utah State University</i> <i>Cum Laude</i>

PROFESSIONAL APPOINTMENTS

Manager Research Analytics and Enablement , Highmark Health <i>Advanced Analytics in Enterprise Data and Analytics</i> <i>Manage a team of six researchers collaborating with physicians leveraging Highmark data assets</i> <i>Core capabilities include linking and analyzing healthcare claims, electronic health records, and public data</i>	2022-Present
Research Scientist , Department of Communication Disorders, Utah State University <i>Co-investigator on NIH-funded projects in the Human Interaction Lab</i>	2022-Present
Research Assistant Professor , Department of Psychology, Utah State University <i>Managing Director of the Data Science & Discovery Unit</i> <i>Administrator of SONA Systems and REDCap</i> <i>Taught graduate level statistics courses and R programming courses</i>	2018-2022
Research Assistant , Prevention Science Lab, Utah State University <i>Advisor: Ginger Lockhart, PhD</i>	2016-2018
Statistical and Data Science Consultant , Utah State University <i>Supervisors: Sarah Schwartz, PhD and Jamison Fargo, PhD</i>	2016-2018
Finance Intern , General Electric <i>Data support and analytics</i>	2014

INTERESTS

RESEARCH: Development and testing of open source tools for individuals with disabilities
TEACHING: Web applications, Software Development, R programming, C programming

PROFESSIONAL SERVICE

data.table Maintainer	2023-Present
Center for Open Science Ambassador	2019-Present
Journal of Speech, Language, and Hearing Research Voluntary Reviewer	2018-Present




EXTERNAL FUNDING (Ongoing)

NIH R01	Lansford, K. L. (MPI), Borrie, S. A. (MPI), & Barrett, T. S. (Co-I) . (2024). <i>Perceptual Training for Improved Intelligibility of People with Parkinson's Disease</i> . NIH/NIDCD. R01DC020930. September 09, 2024 – August 08, 2029. \$2,666,871 .
NIH R01	Borrie, S. A. (PI), Barrett, T. S. (Co-I) , Visar, B. (Co-I), & Liss, J. (Co-I). (2023). <i>A causal framework of communicative participation in people with Parkinson's disease</i> . NIH/NIDCD. R01DC020713-01A1. July 07, 2023 – June 06, 2028. \$2,329,452 .
NSF POSE Phase II	Hocking, T. (PI) Barrett, T. S. (Consultant) . (2023). <i>POSE: Phase II: Expanding the data.table ecosystem for efficient big data manipulation in R</i> . NSF. 2303612. July 07, 2023 – June 06, 2025. \$731,000 .
Parkinson's Foundation	Lansford, K. L. (PI), Borrie, S. A. (Co-I), & Barrett, T. S. (Co-I) . (2023). <i>Speaker and listener strategies to improve intelligibility in Parkinson's disease</i> . Parkinson's Foundation. July 07, 2023 – December 12, 2024. \$150,000 .









EXTERNAL FUNDING (Completed)







HRSA	Voss, M. (PI) & Barrett, T. S. (Co-I) . (2020). <i>Necessary Education and eXperiential Training for Upcoming Para-professionals (NEXT-UP)</i> . HRSA. 1 T26HP39463-01-00. September 09, 2020 – August 08, 2024. \$2,296,000 .
IES	Larson, A. (PI), Snyder, P. (Mentor) Domenech Rodriguez, M. (Mentor), & Barrett, T. S. (Consultant) . (2020). <i>Video- and App-Based Naturalistic Language Instruction (VALI) for Spanish-Speaking Caregivers to Support Bilingual Language Development in Children With or At Risk for Language Delays</i> . IES/NCSER. R324B200009. July 07, 2020 – June 06, 2024. \$499,927 .
SAMHSA	Sulzer, S. (PI), Prevedel, S., Chapoose, M., Madden, E., Barrett, T. S. (Co-I) , Keady, T., Peatross, J., DasGupta, D., Fullenkamp, N., & Zaman, K. (2020). <i>Bridging Harm Reduction and Wellness for Tribal and Rural Areas of the Intermountain West</i> . SAMHSA. H79TI083267. September 09, 2020 – August 08, 2023. \$1,099,997 .
NIH R21	Leopold, S. (PI), Borrie, S. A. (Co-I), & Barrett, T. S. (Co-I) . (2020). <i>Application of Ideal Binary Masking to Disordered Speech</i> . NIH/NIDCD. 1R21DC018641-01. April 04, 2020 – March 03, 2023. \$430,000 .
NIH R21	Borrie, S. A. (PI), Lansford, K. (PI), & Barrett, T. S. (Co-I) . (2020). <i>Perceptual training for improved intelligibility of dysarthric speech</i> . NIH/NIDCD. 1R21DC018867-01. July 07, 2020 – June 06, 2022. \$420,000 .











PEER-REVIEWED JOURNAL ARTICLES









- In Press Kramer, D. E., **Barrett, T. S.**, Drury-Gworek, C., LeJeune, K., Cheng, B. C., Vyas, P. Walsh, K., Prostko, E. R., Altman, D. T., & Massie, L. (in press). Risk Factors Associated with Revision Microdiscectomy or Subsequent Spinal Fusion within 2 Years of Index Lumbar Microdiscectomy *SPINE*.
- Rung, J. M., **Barrett, T. S.**, LeJeune, K., Richards, S., Raina, A., & Sinoway, L. (in press). Dosing patterns and dose effects of sacubitril/valsartan: a claims-based retrospective cohort study *PLOS ONE*.
- Lansford, K. L., Hirsch, M. E., **Barrett, T. S.**, & Borrie, S. A. (in press). Cognitive predictors of perception and adaption to dysarthric speech in older adults. *Journal of Speech, Language, and Hearing Research*.  
- Stipancic, K. L., **Barrett, T. S.**, Tjaden, K., & Borrie, S. A. (in press). Automated scoring of the Speech Intelligibility Test using Autoscore. *American Journal of Speech-Language Pathology*.
- Borrie, S. A., Tetzloff, K., **Barrett, T. S.**, & Lansford, K. L. (in press). Increasing motivation increases intelligibility benefits of perceptual training of dysarthria. *American Journal of Speech-Language Pathology*.
- Blais, R. K., **Barrett, T. S.**, Tannahill, H. S., & Hoyt, T. (in press). Fears of Stigma Perceived from Unit Leaders for Seeking Psychological Services for Military Sexual Trauma Sequelae is Associated with Suicide Risk among Male Service Members and Veterans. *Stigma and Health*. <https://doi.org/10.1037/sah0000543>
- 2025 Popkov, A. A., **Barrett, T. S.**, Shergil, A., Donohue, M., Anderson, R. J., & Karlin, B. E. (2025). Association Between Depression Symptom Severity and Total Cost of Care: Findings from a Large, 2-year, Claims-Based, Retrospective Population Health Study. *Journal of Affective Disorders*, 368, 41-47. <https://doi.org/10.1016/j.jad.2024.09.056>
- 2024 Karlin, B. E., Anderson, R. J., Rung, J. M., Drury-Gworek, C., & **Barrett, T. S.** (2024). Impact of Real-World Implementation of Evidence-Based Insomnia Treatment within a Large Payor-Provider Health System: Initial Provider and Patient-Level Outcomes. *SLEEP Advances*, 5(1), zpae053. <https://doi.org/10.1093/sleepadvances/zpae053>
- Karlin, B. E., Anderson, R. J., Rung, J. M., Drury-Gworek, C., & **Barrett, T. S.** (2024). Clinical and Financial Significance of Insomnia within a Large Payor-Provider Health System. *SLEEP Advances*, 5(1), zpae054. <https://doi.org/10.1093/sleepadvances/zpae054>
- Voss, M. W., Hung, M., Li, W., Richards, L., Price, P., Terrill, A., & **Barrett, T. S.** (2024). Costs of forced retirement: Measuring the effect of lost work opportunity on health. *Journal of Occupational and Environmental Medicine*, 10-1097.
- Popkov, A. & **Barrett, T. S.** (2024). AI vs Academia: Experimental Study on AI Text Detectors' Accuracy in Behavioral Health Academic Writing. *Accountability in Research: Ethics, Integrity, and Policy*, 1-17. <https://doi.org/10.1080/08989621.2024.2331757>
- Aller, T. B., Kelley, H. H., **Barrett, T. S.**, Covington, B., Levin, M. E., & McClain, M. B. (2024). An examination of psychological flexibility as a mediator between mental health concerns and satisfaction with life among autistic adults. *Autism in Adulthood*. <https://doi.org/10.1089/aut.2023.0143> 
- Sulzer, S. H., Prevedel, S., **Barrett, T. S.**, Mekjian, M., Vincent, M., Frabis, F., Meier, C., Shiverdecker, C. W., Voss, M. W., Cook, P. J., & Madden, E. F. (2024). Pilot Testing an Asynchronous Online Harm Reduction and Pharmacotherapy Stigma Reduction Training for Substance Use Treatment Professionals. *Journal of Drug Issues*, 220426231226223. <https://doi.org/10.1177/00220426231226223>









- Vázquez, A. L., Culianos, D., Gudiño, O. G. Navarro Flores, C. M., **Barrett, T. S.**, Domenech Rodríguez, M. M. (2024). Dimensions of caregiver strain may partially mediate the relationship between youth symptomology and counseling utilization among Latinxs. *PLOS ONE*, 19(4), e0302575. <https://doi.org/10.1371/journal.pone.0302575>
- Joseph, E. A., Anees, M., **Barrett, T. S.**, Aliu, O., Wagner, P. L., Barlett, D. L., & Allen, C. J. (2024). Advanced Care Planning Prior to Oncologic Surgery: An Assessment of Utilization and Implications. *Annals of Surgical Oncology*, 31(8), 4861-4863. <https://doi.org/10.1245/s10434-024-15417-3>
- Wynn, C. J., Awan, Shaheen, **Barrett, T. S.**, & Borrie, S. A. (2024). Conversational Speech Behaviors are Context Dependent. *Journal of Speech, Language, and Hearing Research*, 67(5), 1360-1369. https://doi.org/10.1044/2024_JSLHR-23-00622
- Rung, J. M., Aliu, O., **Barrett, T. S.**, LeJeune, K., & Farah, T. G. (2024). Prevalence and Cost of Routine Preoperative Care for Low-Risk Cataract Surgery a Decade After Choosing Wisely. *Ophthalmology*, 131(5), 577-588. <https://doi.org/10.1016/j.ophttha.2023.12.001>
- Vázquez, A. L., Domenech Rodríguez, M. M., Cadenas, G. A., **Barrett, T. S.**, & Navarro Flores, C. M. (2024). Barriers to accessing telepsychology services questionnaire: Structure and language-based performance in a sample of Latinx caregivers. *Psychological Services*, 21(1), 50-64. <https://doi.org/10.1037/ser0000804>
- Vázquez, A. L., Domenech Rodríguez, M. M., Navarro Flores, C. M., Abreu, R. L., & **Barrett, T. S.** (2024). La vergüenza [the shame]: Measuring affiliate stigma associated with youth mental health problems among Latinx caregivers. *Journal of Latinx Psychology*, 12(1), 18-33. <https://doi.org/10.1037/lat0000235>
- Chieng, A. C. J., Wynn, C. J., Wong, T. P., **Barrett, T. S.**, & Borrie, S. A. (2024). Lexical alignment is pervasive across contexts in Non-WEIRD adult-child interactions *Cognitive Science*, 48(3), e13417. <https://doi.org/10.1111/cogs.13417>
- 2023 Harper, S. A., Long, C. Corbridge, S., **Barrett, T. S.**, Braeger, A., Zollinger, B. J., Hale, A. E., Brown, C. B., Harrison, K., Poulsen, S. L., Boman, T., & Dakin, C. J. (2023). Stairway visual contrast enhancement to reduce fall risk factors. *Journal of Ergonomics*, 12(3), 1-8. <https://doi.org/10.35248/2165-7556-22.12.303>
- Borrie, S. A., Hepworth, T. J., Wynn, C. J., Hustad, K. C., **Barrett, T. S.**, & Lansford, K. L. (2023). Perceptual learning of dysarthria in adolescence. *Journal of Speech, Language, and Hearing Research*, 66(10), 3791-3803. https://doi.org/10.1044/2023_JSLHR-23-00231
- Parmenter, J. G., Galliher, R. V., Berke, R., & **Barrett, T. S.** (2023). Configuration of sexual and vocational identity processes among sexual minority college students. *Journal of LGBTQ Issues in Counseling*, 17(4), 306-323. <https://doi.org/10.1080/26924951.2023.2200987>
- Yoho, S. E., **Barrett, T. S.**, & Borrie, S. A. (2023). The influence of sensorineural hearing loss on the relationship between the perception of speech in noise and dysarthric speech. *Journal of Speech, Language, and Hearing Research*, 66(10), 4025-4036. https://doi.org/10.1044/2023_JSLHR-23-00115
- Tannahill, H. S., **Barrett, T. S.**, Zalta, A. K., Tehee, M., & Blais, R. K. (2023). Posttraumatic cognitions differ between men and women after military sexual assault revictimization in their contribution to PTSD symptoms. *Journal of Interpersonal Violence*, 38(7-8), 6038-6061. <https://doi.org/10.1177/08862605221127211>

- Borrie, S. A., Yoho, S. E., Healy, E., & **Barrett, T. S.** (2023). The application of time-frequency masking to improve intelligibility of dysarthria in background noise. *Journal of Speech, Language, and Hearing Research*, 66(5), 1853-1866. https://doi.org/10.1044/2023_JSLHR-22-00558  
- Voss, M. W., **Barrett, T. S.**, Campbell, A. & Van Komen, A. (2023). Parenting and the opioid epidemic: A systematic scoping review. *Journal of Child and Family Studies*, 32, 1280-1293. <https://doi.org/10.1007/s10826-023-02576-2>
- Wynn, C. J., **Barrett, T. S.**, Berisha, V., Liss, J., & Borrie, S. A. (2023). Speech Entrainment in Adolescent Conversations: A Developmental Perspective. *Journal of Speech, Language, and Hearing Research*. https://doi.org/10.1044/2023_JSLHR-22-00263
- Hancock, A., Warren, C., **Barrett, T. S.**, Bolton, D., & Gillam, R. (2023). fNIRS Measures of Neural Activity in Children with and Without Developmental Language Disorder During a Working Memory Task. *Brain and Behavior*, 13(2), e2895. <https://doi.org/10.1002/brb3.2895>
- San Miguel, G. G., Muñoz, K., **Barrett, T. S.** & Twohig, M. P. (2023). Moderators and predictors in a parent hearing aid management eHealth program. *International Journal of Audiology*, 62(5), 410-417. <https://doi.org/10.1080/14992027.2022.2048103>  
- Blais RK, Livingston WS, Barrett TS, Tannahill HS (2023). Sexual Violence in Military Service Members/Veterans Individual and Interpersonal Outcomes Associated with Single and Multiple Exposures to Civilian and Military Sexual Violence. *Journal of Interpersonal Violence*, 38(44989), 2585-2613. <https://doi.org/10.1177/08862605221101197>
- 2022 Lansford, K., **Barrett, T. S.**, & Borrie, S. A. (2022). Cognitive predictors of perception and adaptation to dysarthric speech in young adult listeners. *Journal of Speech, Language, and Hearing Research*, 66(1), 30-47. https://doi.org/10.1044/2022_JSLHR-22-00391
- Brown, C. B., **Barrett, T. S.**, Long, C., Corbridge, S., Braeger, A., Harrison, K., Poulsen, S. L., Boman, T., Dakin, C. J., & Harper, S. A. (2022). Step edge highlighters and illuminance changes influence stair descent in a real-world setting. *Ergonomics*, 66(9), 1219-1228. <https://doi.org/10.1080/00140139.2022.2141347>
- Aller, T. B., **Barrett, T. S.**, Levin, M. E., McClain, M. B. (2022). Measuring psychological flexibility in autistic adults: The validity and reliability of the AAQ-II, BEAQ, and VQ. *Journal of Contextual Behavior Science*, 26, 125-133. <https://doi.org/10.1016/j.jcbs.2022.09.001> 
- Reuveni, N., Carlson, C., Schwartz, S., **Barrett, T. S.**, & Freeman, S. (2022). The antidepressant and anxiolytic effect of cannabinoids in chronic unpredictable stress: a preclinical systematic review and meta-analysis. *Translational Psychiatry*, 12, 217. <https://doi.org/10.1038/s41398-022-01967-1> 
- Wynn, C. J., **Barrett, T. S.**, Borrie, S. A. (2022). Rhythm Perception, Speaking Rate Entrainment, and Conversational Quality: A Mediated Model. *Journal of Speech, Language, and Hearing Research*, 65(6), 2187-2203. https://doi.org/10.1044/2022_JSLHR-21-00293  
- Petersen, J. M., Barney, J. L., **Barrett, T. S.**, Lensegrav-Benson, T., Quakenbush-Roberts, B., & Twohig, M. P. (2022). Values engagement as a predictor of eating disorder severity in female adolescents with eating disorders. *Eating Disorders: The Journal of Treatment and Prevention*, 31(4), 388-404. <https://doi.org/10.1080/10640266.2022.2141710>

- Harper, S. A., Long, C., Corbridge, S., **Barrett, T. S.**, Braeger, A., Zollinger, B. J., Hale, A., Brown, C. B., Poulsen, S., & Dakin, C. J. (2022). Safe stairway negotiation: Role of distractions and handrail use. *Journal of Safety Research*, 82, 314-322. <https://doi.org/10.1016/j.jsr.2022.06.007>
- King, M., Ward, H., Soto, G., & **Barrett, T. S.** (2022). Supporting emergent bilinguals who use AAC and their families: Lessons in telepractice from the COVID-19 Pandemic. *American Journal of Speech-Language Pathology*, 31(5), 2004-2021. https://doi.org/10.1044/2022_AJSLP-22-00003
- Aller, T. B., Kelley, H., Fauth, E.B., & **Barrett, T. S.** (2022). A non-randomized, quasi-experimental comparison of effects between an in-person and online delivery of a college mental health literacy curriculum. *Prevention Science*, 23(7), 1208-1215. <https://doi.org/10.1007/s11121-022-01350-y>  
- Knollhoff, S., Hancock, A., **Barrett, T. S.**, & Gillam, R. (2022). Cortical Activation of Swallowing Using fNIRS: A Proof of Concept Study with Healthy Adults. *Dysphagia*, 37(6), 1501-1510. <https://doi.org/10.1007/s00455-021-10403-3>  
- Barney, J. L., **Barrett, T. S.**, Lensegrav-Benson, T., Quakenbush, B., Twohig, M. P. (2022). Examining a mediation model of body image-related cognitive fusion, intuitive eating, and eating disorder symptom severity in a clinical sample. *Eating and Weight Disorders – Studies on Anorexia, Bulimia, and Obesity*, 27(6), 2181-2192. <https://doi.org/10.1007/s40519-021-01352-9>
- Vázquez, A. L., Culianos, D., Navarro Flores, C. M., Alvarez, M. C., **Barrett, T. S.**, & Domenech Rodríguez, M. M. (2022). Psychometric evaluation of a barriers to mental health treatment questionnaire for Latino/a/x caregivers of children and adolescents. *Child & Youth Care Forum*, 51, 847–864. <https://doi.org/10.1007/s10566-021-09656-8>
- Larson, A. L., Baralt, M., Hokenson, J., Hammer, C. S., **Barrett, T. S.**, & DeVilbiss, N. (2022). A randomized controlled trial assessing the effectiveness of the Háblame Bebé mobile application with Spanish-speaking mothers experiencing economic hardship. *American Journal of Speech-Language Pathology*, 31(2), 722-738. https://doi.org/10.1044/2021_AJSLP-21-00094
- Borrie, S. A., Wynn, C. J., Berisha, V., & **Barrett, T. S.** (2022). From speech acoustics to communicative participation in dysarthria: Towards a causal framework. *Journal of Speech, Language, and Hearing Research*, 65(2), 405-418. https://doi.org/10.1044/2021_JSLHR-21-00306  
- 2021 Vázquez, A. L., Navarro Flores, C. M., Alvarez, M. C., Gonzalez Vera, J. M., **Barrett, T. S.**, & Domenech Rodríguez, M. M. (2021). Youth mental health service preferences and utilization patterns among Latinx caregivers. *Children and Youth Services Review*, 131, 106258. <https://doi.org/10.1016/j.childyouth.2021.106258>
- Vázquez, A., Domenech Rodríguez, M. M., **Barrett, T. S.**, Amador Buenabad, N. G., Gutiérrez López, M. L., & Bustos Gamiño, M. N. (2021). Parent characteristics and practices classify lifetime substance use among Mexican children. *International Journal of Mental Health and Addiction*, 21, 958–972. <https://doi.org/10.1007/s11469-021-00634-8>
- Vázquez, A. L., Chou, T., Navarro Flores, C. M., **Barrett, T. S.**, Villodas, M. T., & Domenech Rodríguez, M. M. (2021). High value correlates of caregiver reported counseling service need and utilization for adolescents at-risk for childhood maltreatment and neglect. *PLOS ONE*, 16(10), e0258082. <https://doi.org/10.1371/journal.pone.0258082>

- Barney, J. L., **Barrett, T. S.**, Lensegrav-Benson, T., Quakenbush, B., & Twohig, M. P. (2021). Confirmatory factor analysis and measurement invariance of the cognitive fusion questionnaire-body image in a clinical eating disorder sample. *Body Image*, 38, 262-269. <https://doi.org/10.1016/j.bodyim.2021.04.012>
- Sulzer, S., Prevedel, S., **Barrett, T. S.**, Voss, M. W., Manning, C. & Madden, E. F. (2021). Professional education to reduce provider stigma toward harm reduction and pharmacotherapy. *Drugs: Education, Prevention & Policy*, 29(5), 576-586. <https://doi.org/10.1080/09687637.2021.1936457>  
- Buntrock, M. S., Barker, B. A., Gurries, M. M., & **Barrett, T. S.** (2021). The effect of talker familiarity on sentence recognition accuracy in complex noise. *Experimental Psychology*, 68(1), 49-55. <https://doi.org/10.1027/1618-3169/a000509>  
- Tannahill, H. S., Fargo, J. D., **Barrett, T. S.**, & Blais, R. K. (2021). Gender as a moderator of the association of military sexual trauma and posttraumatic stress symptoms. *Journal of Clinical Psychology*, 77(10), 2262-2287. <https://doi.org/10.1002/jclp.23162>
- Borrie, S. A., Lansford, K. L., & **Barrett, T. S.** (2021). A clinical advantage: Experience informs recognition and adaptation to a novel talker with dysarthria. *Journal of Speech, Language, and Hearing Research*, 64(5), 1503-1514. https://doi.org/10.1044/2021_JSLHR-20-00663  
- Lubold, N., Willi, M. M., Borrie, S. A., **Barrett, T. S.**, & Berisha, V. (2021). Healthy communication partners modify their speech when conversing with individuals with Parkinson's disease. *Journal of Speech, Language, and Hearing Research*, 64(5), 1539-1549. https://doi.org/10.1044/2021_JSLHR-20-00233
- Muñoz, K., San Miguel, G., **Barrett, T. S.**, Kasin, C., Baughman, K., Reynolds, B., Ritter, C., Larsen, M., Whicker, J. J., & Twohig, M. P. (2021). eHealth parent education for hearing aid management: A pilot randomized control trial. *International Journal of Audiology*, 60, S42-S48. <https://doi.org/10.1080/14992027.2021.1886354>  
- Hirsch, M. E., Lansford, K. L., **Barrett, T. S.**, & Borrie, S. A. (2021). Generalized learning of dysarthric speech between male and female talkers. *Journal of Speech, Language, and Hearing Research*, 64(2), 444-551. https://doi.org/10.1044/2020_JSLHR-20-00313
- Knollhoff, S., Borrie, S. A., **Barrett, T. S.**, & Searl, J. P. (2021). Listener impressions of alaryngeal communication modalities. *International Journal of Speech-Language Pathology*, 23(5), 540-547. <https://doi.org/10.1080/17549507.2020.1849400>  
- 2020 Crapo, J. S., **Barrett, T. S.**, Bradford, K., Miller, J. A., & Higginbotham, B. J. (2020). Couple relationship education outcomes predicted by family life stage and traditionality. *Contemporary Family Therapy*, 42, 422-435. <https://doi.org/10.1007/s10591-020-09541-x>
- Ong, C. W., Hancock, A. S., **Barrett, T. S.**, Lee, E. B., Wan, N., Gillam, R., Levin, M. E., & Twohig, M. P. (2020). A preliminary investigation of the effect of acceptance and commitment therapy on neural activation in clinical perfectionism. *Journal of Contextual Behavioral Science*, 18, 152-161. <https://doi.org/10.1016/j.jcbs.2020.09.007>
- Lansford, K., Borrie, S. A., **Barrett, T. S.**, & Flechaus, C. (2020). When additional training isn't enough: Further evidence that unpredictable speech inhibits adaptation. *Journal of Speech, Language, and Hearing Research*, 63(6), 1700-1711. https://doi.org/10.1044/2020_JSLHR-19-00380

- Darcy-Mahoney, A., White, R. D., Velasquez, A., **Barrett, T. S.**, Clark R. H., & Ahmad, K. A. (2020). Impact of restrictions on parental presence in neonatal intensive care units related to COVID-19. *Journal of Perinatology*, 40, 36-46. <https://doi.org/10.1038/s41372-020-0753-7> medRxiv Pre-Print
- Larson, A. L., **Barrett, T. S.**, & McConnell, S. R. (2020). Exploring early childhood language environments: A comparison of language use and exposure in the home and childcare settings. *Language, Speech, and Hearing Services in Schools*, 51(3), 706-719. https://doi.org/10.1044/2019_LSHSS-19-00066  
- Borrie, S. A., Wynn, C. J., Berisha, V., Lubold, N., Willi, M. M., Coelho, C. A., & **Barrett, T. S.** (2020). Conversational coordination of articulation responds to context: A clinical test case with traumatic brain injury. *Journal of Speech, Language, and Hearing Research*, 63(8), 2567-2577. https://doi.org/10.1044/2020_JSLHR-20-00104
- Nelson, L. H., Anderson, K., Whicker, J., **Barrett, T. S.**, Muñoz, K. & White, K. (2020). Classroom listening experiences of students who are deaf or hard of hearing using the Listening Inventory for Education-Revised (LIFE-R). *Language, Speech, and Hearing Services in Schools*, 51(3), 720-733. https://doi.org/10.1044/2020_LSHSS-19-00087
- Vázquez, A. L., Domenech Rodríguez, M. M., Schwartz, S. E., Amador Buenabad, N. G., Bustos, M., Gutierrez, M., Villatoro Velázquez, J. A., & **Barrett, T. S.** (2020). Innovative identification of substance use predictors: Machine learning in national sample of Mexican children. *Prevention Science*, 21(2), 171-181. <https://doi.org/10.1007/s11121-020-01089-4>
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- 2016 **Barrett, T. S.** & White, K. R. (2016). Prevalence and trends of childhood hearing loss based on federally-funded national surveys: 1994–2013. *Journal of Early Hearing Detection and Intervention*, 1(2), 8-16. <https://doi.org/10.15142/T3P88B>
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- 2015 Borgogna, N., Lockhart, G., Grenard, J., **Barrett, T. S.**, Shiffman, S., & Reynolds, K. (2015). Ecological momentary assessment of urban adolescents' technology use and cravings for unhealthy snacks and drinks: Differences by ethnicity and sex. *Journal of the Academy of Nutrition and Dietetics*, 115(5), 759-766. <https://doi.org/10.1016/j.jand.2014.10.015>







POLICY REPORTS

- Meier, C., Gast, J., **Barrett, T.**, Ferguson, M., Culianos, D., & Ward, L. (2022). *Utah college sexual behavior survey: Initial findings report. Extension Research. Paper 20.* Utah State University. https://digitalcommons.usu.edu/extension_research/20
- Doutre, S. M., **Barrett, T.**, & Rice, J. (2021). *California's Special Education Local Plan Areas: Funding patterns, inclusion rates, and student outcomes (REL 2021-134).* Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance, Regional Educational Laboratory West. Retrieved from <http://ies.ed.gov/ncee/edlabs>.
- Doutre, S.M., Ripma, T., **Barrett, T.**, Williams Valentine, T., Caparas, R. and Willis, J. (2021). *California special education governance and accountability study.* WestEd. <https://www.cde.ca.gov/sp/se/ac/segalegreport.asp>
- Doutre, S.M., Willis, J., **Barrett, T.**, Ripma, T., Caparas, R., & Krausen, K. (2021). *California State Special Education Funding System Study, Part 2: Findings, Implications, and Considerations for Improving Special Education Funding in California.* WestEd. <https://www.wested.org/ca-special-education-funding-system-study/>
- Willis, J., Doutre, S.M., Krausen, K., **Barrett, T.**, Ripma, T., & Caparas, R. (2020). *California Special Education Funding System Study: A Descriptive Analysis of Special Education Funding in California.* WestEd. <https://www.wested.org/resources/ca-special-education-funding-system/>

PUBLISHED PRE-PRINTS

Not otherwise published in peer-reviewed journals.

- Barrett, T.S.** (2019, Oct 3). List-columns in `data.table`: Nesting and unnesting data tables and vectors. *PsyArXiv*. <https://doi.org/10.31234/osf.io/u8ekc>  






- Barrett, T.S.** (2019, August 15). Six Reasons to Consider Using R in Psychological Research. *PsyArXiv*. <https://doi.org/10.31234/osf.io/8mb6d>  
- Barrett, T.S.**, Cruz, R.A., & Lockhart, G. (2019, June 18). Marginal Mediation Analysis: A Practical Statistical Framework for Interpretable Mediated Effects. *PsyArXiv*. <https://doi.org/10.31234/osf.io/fgm8t>  
- Barrett, T.S.**, Borrie, S.A., & Yoho, S.E. (2019, June 14). Automating with Autoscore: Introducing an R package for automating the scoring of orthographic transcripts. *PsyArXiv*. <https://doi.org/10.31234/osf.io/d8au4>  

PEER-REVIEWED CONFERENCE PROCEEDINGS

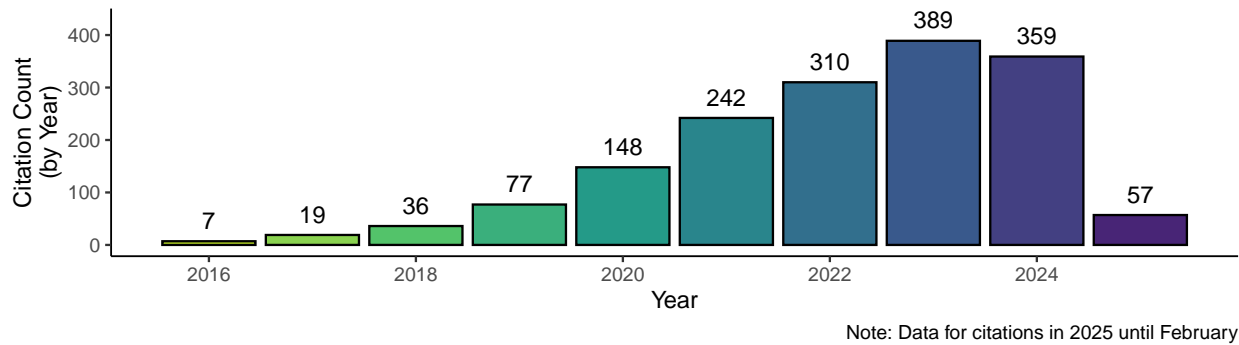
- Lubold, N. Borrie, S.A., **Barrett, T.S.**, Willi, M., & Berisha, V. (2019). Do Conversational Partners Entrain on Articulatory Precision? *Proceedings of INTERSPEECH 2019*. Paper number 1786, 1–5. (three reviewers, 50% acceptance rate). doi: 10.21437/Interspeech.2019-1786
- Willi, M., Borrie, S.A., **Barrett, T.S.**, Tu, M. & Berisha, V. (2018). A discriminative acoustic-prosodic approach for measuring local entrainment. *Proceedings of INTERSPEECH 2018*. Paper number 1419, 1–5. (four reviewers, 50% acceptance rate).
 – ArXiv Pre-Print: 1804.08663

OTHER PUBLISHED WORKS

R Packages Created

- Barrett, T.S.** (2019). *dissertateUSU*. URL: github.com/tysonstanley/dissertateUSU. R package version 0.3.1. doi: 10.5281/zenodo.3240640. 
- Barrett, T.S.** (2019). *tidyfast*. URL: github.com/tysonstanley/tidyfast. R package version 0.4.0. 
- Barrett, T.S.** (2019). *rjasa*. URL: github.com/tysonstanley/rjasa. R package version 0.1.1.
- Barrett, T.S.**, Borrie, S.A., & Yoho, S.E. (2019). *autoscore*. URL: [github.com/autoscore/autoscore](https://github.com/tysonstanley/autoscore). R package version 0.5.0. 
- Barrett, T.S.** (2018). *MarginalMediation*: Marginal Mediation Analysis. URL: tysonbarrett.com/MarginalMediation. R package version 0.7.2. 
- Barrett, T.S.**, Brignone, E. & Laxman, D. (2018) *furniture*: Furniture for Quantitative Researchers. URL: tysonbarrett.com/furniture. R package version 1.9.14. 

CITATION COUNT HISTORY



SELECTED PRESENTATIONS

- Barrett, T.S.** (July 2024). The Past, Present, and Future of data.table. useR! 2024, Salzburg, Austria.
- Harper, S.A., Brown, C.B., Poulsen, S.L., **Barrett, T.S.**, Dakin, J.C. (September 2023). Inter-step variation of stairways and observations of fall-related events. 2023 UAB Center of Exercise Medicine Symposium on Exercise and Aging. Invited Flash Talk.
- Gast, J., Ferguson, M., Meier, C., **Barrett, T.S.**, Ward, L. & Culianos, D. (November, 2022). Youth Sexual Behaviors in Utah: A Retrospective Study of Behaviors and Sex Education in Middle School and High School. American Public Health Association, Boston, MA.
- Meier, C., Gast, J., **Barrett, T.S.**, Ferguson, M., Culianos, D., & Ward, L. (November, 2022). We Need More Sex Education! The Results of a Retrospective Sexual Behavior Survey Among Utahns and Differences by Rurality and Sexuality. American Public Health Association, Boston, MA.
- Culianos, D., **Barrett, T.S.**, Meier, C., Gast, J., Ward, L., & Ferguson, M. (November, 2022). The Reliability and Validity of Sex-Inclusive and Retrospective Sex Measures. American Public Health Association, Boston, MA.
- Meier, C., Gast, J., **Barrett, T.S.**, Ferguson, M., Culianos, D., & Ward, L. (March, 2022). Youth sexual behaviors in Utah: Findings from the 2021 Utah College Sexual Behavior Survey. Utah Public Health Association, Virtual Conference.
- Smith, B.M., **Barrett, T.S.**, & Twohig, M.P. (2021, June). Processes of change during exposure for intrusive thoughts. In L. Capel (Chair), Investigating acceptance and commitment therapy interventions and processes in obsessive-compulsive and related disorders. Paper presented at the annual meeting of the Association of Contextual Behavioral Science, online.
- Smith, B.M., Barney, J.L., Ong, C.W., **Barrett, T.S.**, Levin, M.E., & Twohig, M.P. (2020, November). Outcomes and mechanisms of change in acceptance and regulation approaches to exposures for intrusive thoughts. In S. P. Buinewics & J. Buchholz (Chairs), Understanding the therapeutic process of exposure therapy to optimize treatment. Paper presented at the annual meeting of the Association for Behavioral and Cognitive Therapies, online.
- Smith, B. M., Barney, J.L., Ong, C.W., **Barrett, T.S.**, Levin, M.E., & Twohig, M.P. (2020, July). Physiological, behavioral, and self-report outcomes of acceptance and regulation approaches to exposures for intrusive thoughts. In S. Mpoulkoura (Chair), Third-wave approaches to anxiety disorders treatment: Outcomes and processes of change. Paper presented at the annual meeting of the Association for Contextual Behavioral Science, online.
- Hancock, A.S., Orellana, C., Alphonsa, S., **Barrett, T.S.**, Logan, K., Gillam, S.L., & Gillam, R.B. (2020, May). An fNIRS Investigation During Stuttered and Fluent Speech. Poster presentation at Cognitive Neuroscience Society, Boston, Massachusetts.
- Barrett, T.S.** (2020, January). Working with list-columns in data.table. Talk presented at the

RStudio Conference 2020, San Francisco, CA.

- Vázquez, A.L., Chou, T., Navarro, C., **Barrett, T.S.**, Villodas, M.T., & Domenech Rodríguez, M.M. (2019, November). Understanding caregiver perceived need for and utilization of adolescent counseling services through machine learning. In M. D. Hetzel-Riggin (Chair). Addressing violence, abuse, and trauma throughout the socioecological model. Symposium accepted for presentation at the Association for Behavioral and Cognitive Therapies, Atlanta, GA.
- Budge, S., Borrie, S.A., **Barrett, T.S.**, Yoho, S.E., Vargas, R., & Lansford, K. (2019, November). Gamified Perceptual Learning of Dysarthric Speech. Poster presented at the 2019 ASHA Convention, Orlando, FL.
- Hirsch, M., Lansford, K., Borrie, S.A., & **Barrett, T.S.** (2019, November). Familiarization of Dysarthric Speech: Generalization Between Speakers of Different Sex. Poster presented at the 2019 ASHA Convention, Orlando, FL.
- Ong, C.W., Lee, E.B., Krafft, J., Terry, C.L., **Barrett, T.S.**, Levin, M.E., & Twohig, M.P. (2019, November). A randomized controlled trial of acceptance and commitment therapy for clinical perfectionism. In C. W. Ong (Chair), Using acceptance and commitment therapy for different clinical presentations: Evidence-based adaptations. Symposium conducted at the 53rd annual convention of the Association for Behavioral and Cognitive Therapies, Atlanta, GA.
- Vázquez, A.L., **Barrett, T.S.**, Domenech Rodríguez, M.M., Bustos, M., Gutierrez, M., Amador Buenabad, N.G., & Villatoro Velazquez, J.A. (2019, March). The influence of perceived parenting on substance initiation among Latinx children. Poster presented at the Society for Research in Child Development, Baltimore, MD.
- Vázquez, A.L., Chou, T., Navarro, C., **Barrett, T.S.**, & Domenech Rodríguez, M.M. (2019, March). Examining caregiver perceived need for and utilization of adolescent counseling services through machine learning. Poster presented at the Society for Research in Child Development, Baltimore, MD.
- Vázquez, A. L., Domenech Rodríguez, M. M., **Barrett, T.S.**, Amador Buenabad, N., & Villatoro Velazquez, J. A. (2018, September) Factores de crianza que tienen alto impacto sobre el consumo de drogas por parte niños. In M. M. Domenech Rodríguez (Chair). Crianza positiva y consumo de drogas: hallazgos, modelos y retos para la implementación. Symposium presented at the 2o Congreso Mundial de Prevención de Adicciones en Niños y Adolescentes, Tijuana, BCS, MX.
- Barrett, T.S.**, & Lockhart, G. (2017). Enhancing the Exploration and Communication of Big Data in Prevention Science. Poster presented at the Annual Meeting of the Society of Prevention Research, Washington, DC. *Received “Distinguished Poster Award” and “Abstract of Distinction.”*
- Barrett, T.S.**, & Lockhart, G. (2017). Exploring the Predictors of Marijuana Use Among Adolescents with Asthma. Oral presentation at the Utah State University Research Symposium, Logan, UT.
- Sanghavi, K., White, K., **Barrett, T.S.**, Wylie, A., Raspa, M., Cashman, D., Vogel, B. Caggana, M. & Bodurtha, J. (2017). Poster presented at the Early Hearing Detection and Intervention Conference, Atlanta, GA. *Received “Outstanding Poster Award.”*
- Brignone, E., Gundlapalli, A.V., **Barrett, T.S.**, Blais, R.K., Nelson, R.E., Carter, M.E., Kimerling, R., Samore, M.H., Fargo, J.D. (2016). Cost of Care among Male and Female Veterans with a Positive Screen for Military Sexual Trauma. Poster presented at the 2016 Annual Meeting of the International Conference of Psychology, Yokohama, Japan.
- Barrett, T.S.**, Munoz, K. & White, K. (2016). How well do parent report hearing loss in their children? Poster presented at the Early Hearing Detection and Intervention Conference, San Diego, CA.
- Barrett, T.S.**, Munoz, K. & White, K. (2016). Accounting for Temporary Loss in National Studies on Hearing Loss. Poster presented at the Early Hearing Detection and Intervention Conference, San Diego, CA.
- Barrett, T.S.**, Munoz, K. & White, K. (2016). An Evaluation of Early Intervention delivered via Video

Conferencing. Poster presented at the Early Hearing Detection and Intervention Conference, San Diego, CA.

Stevens, V., **Barrett, T.S.** & Nelson, R. (2016). Distribution and Daily Cost of Care in a Pediatric Hospital. Oral presentation to the Pediatric Guidance Council of Intermountain Healthcare, Salt Lake City, UT.

Barrett, T.S., Munoz, K. & White, K. (2015). Refinements to estimating prevalence of hearing loss in children. Poster presented at the Utah State University Research Symposium, Logan, UT.

Barrett, T.S., Prante, M., Peterson, R., Fargo, J.D., Pyle, N. (2014). Predictors of employability among homeless youth. Poster presented at the Psi-Chi Undergraduate Research Conference at Idaho State University, Pocatello, ID. *Best Undergraduate Poster Presentation Award*.

Barrett, T.S., Holland, D. (2014). Nascent Entrepreneurship, Impulsivity, and Self- Efficacy. Poster presented at the Research on Capitol Hill, Salt Lake City, UT.

Holland, D., **Barrett, T.S.** (2013). Impulsivity in young entrepreneurs. Round table discussion at the Babson Business Conference, Paris, France.

Professional Development Activities Attended

RStudio Conference sponsored by RStudio. Training on advanced features of R and RStudio, including training on data wrangling, reproducible analyses, and database access. January 2019.

RStudio Conference sponsored by RStudio. Special training on using the Shiny developer interface for creating interactive, responsive websites using R. January 2020.

American Educational Research Association Annual Meeting (Virtual). Training on quantitative methodologies (including psychometrics and econometrics) for studying educational policy and practice. April 2021.